

ClimateWatch and Citizen Science: Spatially Enabling the Environmental Community

Piers Higgs Gaia Resources

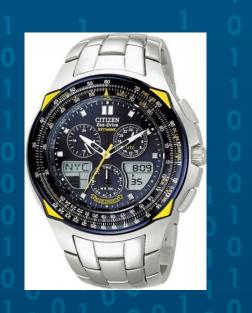


Overview

- Citizen Science
- ClimateWatch
- Atlas of Living Australia
- Spatially enabling the environmental community
- Thoughts for the future...

CITIZENSCIENCE

Citizen Science explained...



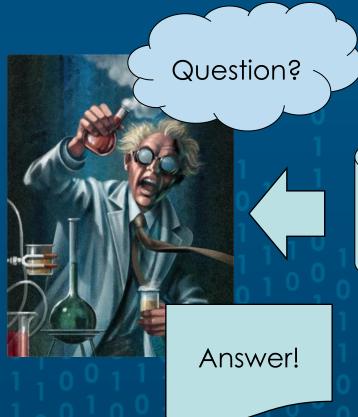






CITIZEN SCIENCE

Citizen Science really explained...



Needs Data!





Citizen Science really explained...

- "Crowdsourcing of science"
- Particularly useful in providing:
 - Observation
 - Measurement
 - Computation





Citizen Science really explained...

Many examples of citizen science that work:





Citizen Science really explained...

- Present two that we've worked on:
 - Climatewatch
 - Atlas of Living Australia









Climatewatch



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ClimateWatch an initiative of Earthwatch Institute

Australian Government
Rural Industries Research and
Development Corporation



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ClimateWatch now in Western

Earthwatch Australia has launched their new ClimateWatch program in WA with **Minister for the E** becoming Western Australia's first ClimateWatch user.

ClimateWatch is a climate change monitoring program that will allow every Australian to be involved data that will help shape the country's scientific response to climate change.















What is it?

 Project developed by the Earthwatch Institute



"ClimateWatch is a climate change monitoring program that allows every Australian to be involved in collecting and recording data that will help shape the country's scientific response to climate change."

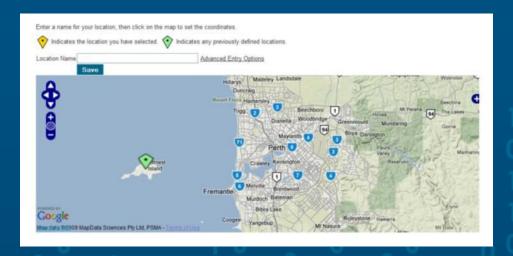
Launched nationally Sept 2009, in WA May 2010.





Where is the spatial?

 Using spatial data and interfaces to streamline the entry of records from the public

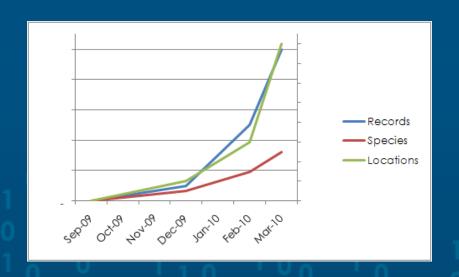


- Every observation is spatial!
- Using OpenLayers, Mapserver, range of data
- open source apps and data



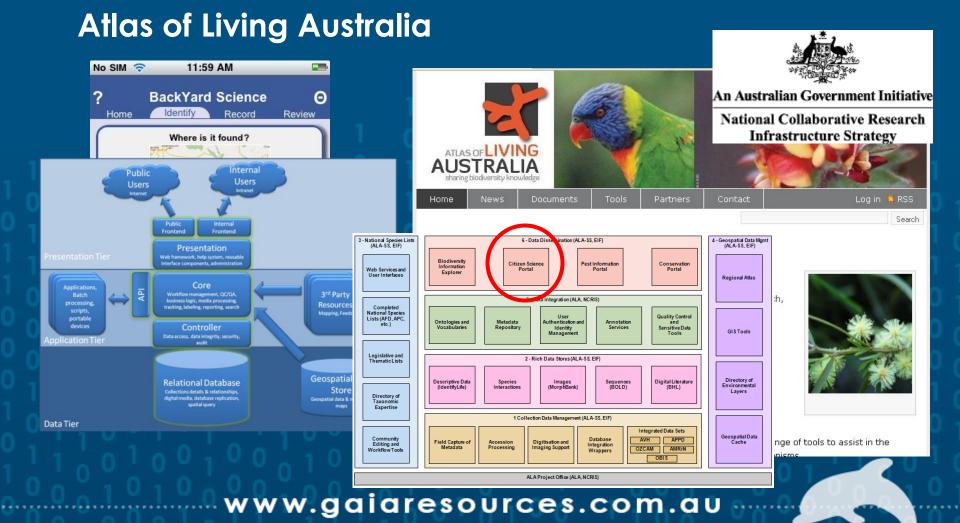
Results

 Using the public to record information increases your data capture by large factor



- What data from the public lacks in accuracy, it can make up for in volume – can add to analyses
- Automated and spatial verification helps!

ATLAS OF LIVING AUSTRALIA





What is it?

 Collecting biodiversity information and making it freely accessible online.

food security

decision making

research

conservation

primary production



biosecurity

global change management

climate change

education

ATLAS OF LIVING AUSTRALIA

Where is the spatial?

- Using spatial data and interfaces throughout the entire project
- Extension of the Climatewatch code base – more generic
- Includes mobile devices platform independent





Results

- Similar to Climatewatch getting the public interested, and creating links to researchers
- Citizen science portals
- Open source softwarefreely available



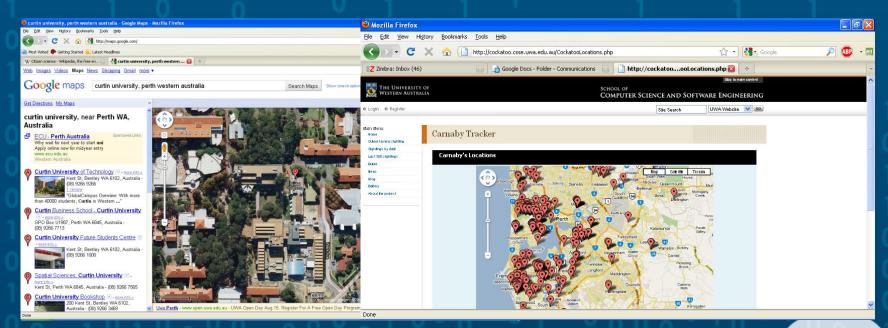


 Will continue to be developed throughout ALA – to 2012



How is Citizen Science and Spatial linked?

 Through "mass" spatial tools/services like Google Maps, the public is more spatially aware





How is Citizen Science and Spatial linked?

- Observations made have spatial component
- Environmental community is no different just different questions
- Typically have many more motivated citizens





Thoughts on the future...

- More citizen science projects and programs coming on-line
- Many of which are asking for spatial components "just like Google"
- Consolidate with existing tools, and go open source
- Consider the currency of citizen science social capital



Spatially enabled citizens...

- Could mean:
 - more science
 - more demand for spatial
 - more people involved in spatial
 - better outcomes for science and for citizens



Questions? Comments?

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